DOCKET NO.: UPN-4470 (P-2942PCT)

Application No.: 10/528,496

Office Action Dated: May 16, 2006

This listing of claims will replace all prior versions, and listings, of claims in the application.

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Listing of Claims:

1. (Original) A compound that inhibits complement activation, which comprises a peptide having a sequence:

Xaa1 - Cys - Val - Xaa2 - Gln - Asp - Trp - Gly - Xaa3 - His - Arg - Cys - Xaa4 (SEQ ID NO:15);

wherein:

Xaa1 is Ile, Val, Leu, Ac-Ile, Ac-Val, Ac-Leu or a dipeptide comprising Gly-Ile;

Xaa2 is Trp or a peptidic or non-peptidic analog of Trp;

Xaa3 is His, Ala, Phe or Trp;

Xaa4 is L-Thr, D-Thr, Ile, Val, Gly, or a tripeptide comprising Thr-Ala-Asn, wherein a carboxy terminal –OH of any of the L-Thr, D-Thr, Ile, Val, Gly or Asn optionally is replaced by –NH₂; and

the two Cys residues are joined by a disulfide bond.

- 2. (Original) The compound of claim 1, wherein Xaa1 is Ac-Ile.
- 3. (Original) The compound of claim 1, wherein Xaa3 is Ala.
- 4. (Original) The compound of claim 1, wherein Xaa2 is an analog of Trp comprising a substituted or unsubstituted bicyclic aromatic ring component or two or more substituted or unsubstituted monocyclic aromatic ring components.
- 5. (Original) The compound of claim 4, wherein the analog of Trp is selected from the group consisting of 2-napthylalanine, 1-naphthylalanine, 2-indanylglycine carboxylic acid, dihydrotryptophan and benzoylphenylalanine.
- 6. (Original) The compound of claim 1, wherein Xaa1 is Ac-Ile, Xaa2 is Trp or an analog of Trp comprising a substituted or unsubstituted indole, naphthyl or dibenzoyl component, Xaa3 is Ala and Xaa4 is L-threonine or D-threonine.

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7. (Original) The compound of claim 6, having a sequence selected from the group consisting of SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12 and SEQ ID NO:13.

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- 8. (Original) The compound of claim 1, wherein Xaa1 is a dipeptide Gly-Ile, and Xaa 4 is a tripeptide Thr-Ala-Asn.
- 9. (Original) The compound of claim 8, comprising a peptide having SEQ ID NO:14.
- 10. (Withdrawn) A compound that inhibits complement activation, comprising a non-peptide or partial peptide mimetic of the compound of claim 1, wherein the compound binds C3 and inhibits complement activation with at least five-fold greater activity than does a peptide comprising SEQ ID NO:1, under equivalent assay conditions.
- 11. (Withdrawn) An isolated nucleic acid molecule encoding one or more peptides that inhibits complement activation, wherein the peptide comprises a sequence:

Xaa1 - Cys - Val - Xaa2 - Gln - Asp - Trp - Gly - Xaa3 - His - Arg - Cys - Xaa4 (SEQ ID NO:15);

wherein:

Xaa1 is Ile, Val, Leu, or a dipeptide comprising Gly-Ile;

Xaa2 is Trp;

Xaa3 is His, Ala, Phe or Trp; and

Xaa4 is L-Thr, D-Thr, Ile, Val, Gly, or a tripeptide comprising Thr-Ala-Asn; wherein the two Cys residues are joined by a disulfide bond.

- 12. (Withdrawn) The isolated nucleic acid molecule of claim 11, encoding a peptide wherein Xaa3 is Ala.
- 13. (Withdrawn) The isolated nucleic acid molecule of claim 12, encoding a peptide comprising SEQ ID NO:14.

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14. (Withdrawn) The isolated nucleic acid molecule of claim 13, encoding a concatemer of two or more of a peptide comprising SEQ ID NO:14, wherein the encoded concatemer is cleavable by hydrazine to form a multiplicity of peptides comprising SEQ ID NO:14.

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- 15. (Withdrawn) An expression vector comprising the isolated nucleic acid molecule of claim 11.
- 16. (Withdrawn) A cell comprising the expression vector of claim 15.
- 17. (Withdrawn) The cell of claim 16, which is a bacterial, fungal, plant, insect or mammalian cell.